CLAIMS

1. (previously presented) A process of leveling a vehicle including an electronic ride height control system in communication with a plurality of air springs secured between at least one vehicle axle and at least one vehicle frame element comprising:

measuring a first angle of a first vehicle axis and a second angle of a second vehicle axis relative to a horizontal plane;

communicating information relating to the first and second angles to a controller;

processing the information with the controller to generate leveling instructions; and

automatically adjusting at least one of the air springs via the electronic ride height control system based on the leveling instructions to alter a distance between the vehicle axle and the vehicle frame element, wherein at least one of the first angle of the first vehicle axis and the second angle of the second vehicle axis relative to the horizontal plane is changed, whereby at least one of the first vehicle axis and the second vehicle axis is at least one of leveled relative to the horizontal plane and brought closer to being leveled relative to the horizontal plane.

2. (previously presented) A process of leveling a vehicle including an electronic ride height control system in communication with a plurality of fluid suspension elements, comprising:

measuring a first angle of a first vehicle axis and a second angle of a second vehicle axis relative to a horizontal plane;

communicating information relating to the first and second angles to a controller;

processing the information with the controller to generate leveling instructions;

automatically adjusting at least one of the fluid suspension elements via the electronic ride height control system based on the leveling instructions, wherein at least one of the first angle of the first vehicle axis and the second angle of the second vehicle axis relative to the horizontal plane is changed, whereby at least one of the first vehicle axis and the second vehicle axis is at least one of leveled relative to the horizontal plane and brought closer to being leveled relative to the horizontal plane; and

outputting the information to an operator via at least one of a display and an audible indicator.

3. (previously presented) The process of claim 2 wherein said measuring, communicating and outputting steps are performed as the vehicle is moving to update the operator of at least one of the first angle and the second angle as the vehicle is moving.

4. (previously presented) A process of leveling a vehicle including an electronic ride height control system in communication with a plurality of fluid suspension elements, comprising:

measuring a first angle of a first vehicle axis and a second angle of a second vehicle axis relative to a horizontal plane;

communicating information relating to the first and second angles to a controller;

processing the information with the controller to generate leveling instructions;

automatically adjusting at least one of the fluid suspension elements via the electronic ride height control system based on the leveling instructions, wherein at least one of the first angle of the first vehicle axis and the second angle of the second vehicle axis relative to the horizontal plane is changed, whereby at least one of the first vehicle axis and the second

vehicle axis is at least one of leveled relative to the horizontal plane and brought closer to being leveled relative to the horizontal plane; and

outputting the information to an operator to inform the operator of at least one of whether or not the first vehicle axis is level relative to the horizontal plane, whether or not the first vehicle axis is being leveled relative to the horizontal plane, whether or not the first vehicle axis is within a range of potential angles that will enable the first vehicle axis to be leveled relative to the horizontal plane, and whether or not the first vehicle axis is leveled to a tolerance relative to the horizontal plane.

5. (original) The process of claim 1 wherein the controller at least one of controls and overrides the electronic height control system in said adjusting step.

6. (previously presented) The process of claim 1 wherein the first vehicle axis is a side to side axis of the vehicle and the second axis is a fore to aft axis of the vehicle.

7. (previously presented) A system for leveling a vehicle having an existing electronic ride height control system in communication with a plurality of air springs, at least one air spring positioned between at least one axle and at least one vehicle frame element, comprising:

a sensor that measures orientations of at least two vehicle axes relative to a horizontal plane; and

a controller in communication with the sensor that processes information relating to the orientations and that generates leveling instructions based on the information, the controller operable in a self leveling mode, wherein the controller is enabled to automatically adjust, via at least one of inflation and deflation at least one of the air springs via the electronic ride height control system based on the leveling instructions, wherein the orientation of at least

one of the at least two vehicle axes relative to the horizontal plane is changed, and a standard leveling mode, wherein the controller is incapable of automatically adjusting at least one of the air springs via the electronic ride height control, so that the electronic ride height control can operate without being controlled by the controller.

8. (previously presented) The system of claim 7 wherein the controller is an electronic control unit, and wherein the sensor is at least one leveling sensor.

9. (previously presented) The system of claim 8 wherein the controller adjusts at least one of the air springs so that the vehicle axis is at least one of leveled relative to the horizontal plane and brought closer to being leveled relative to the horizontal plane.

10. (original) The system of claim 9 wherein the controller is in communication with the electronic ride height control system, and wherein the controller at least one of controls and overrides the electronic ride height control system in said self leveling mode.

11. (original) A process of providing vehicle leveling information comprising:

measuring an orientation of a vehicle axis relative to a horizontal plane as the vehicle moves across a plurality of potential parking locations;

communicating information relating to the orientation to a controller;

processing the information with the controller to generate output, the output indicative of at least one of whether or not the vehicle axis is level relative to the horizontal plane, whether or not the vehicle axis is being leveled relative to the horizontal plane, whether or not the vehicle axis is within a range of potential orientations that will enable the vehicle axis to be leveled relative to the horizontal plane, and whether or not the vehicle axis is leveled the best that the axis can be relative to the horizontal plane; and

communicating the output to an operator via at least one of a display and an audible indicator, wherein the operator is updated on the leveling orientation of the vehicle axis relative to the horizontal plane so that the operator can select at least one of the plurality of parking locations as the vehicle moves across the parking locations.

12. (original) The process of claim 11 comprising at least one of controlling and overriding an electronic ride height control system of the vehicle, and automatically adjusting the orientation of the vehicle axis relative to the horizontal plane based on the output.

13. (original) The process of claim 12 comprising repeating all of said steps until the vehicle axis is parallel to the horizontal plane.

14. (original) The process of claim 11 wherein the controller interfaces with a ride height control system of the vehicle and controls the system to reorient the vehicle axis parallel to the horizontal plane.

15. (original) The process of claim 11 wherein the output is communicated to the operator via the display, the display including a plurality of LEDs that illuminate in a manner representing a leveling orientation of at least two vehicle axes relative to the horizontal plane.

16. (original) The process of claim 15 wherein the at least two vehicle axes are the fore to aft axis and the side to side axis.

17. (cancelled)

18. (previously presented) A process for leveling a vehicle comprising:

sensing the orientation of a vehicle relative to a horizontal plane as the vehicle moves;

processing data relating to the sensed orientation with a controller;

adjusting the orientation of the vehicle relative to the horizontal plane with the controller, based on the data, as the vehicle moves; and

outputting the data to an operator to inform the operator of at least one of whether or not the vehicle axis is level relative to the horizontal plane, whether or not the vehicle axis is being leveled relative to the horizontal plane, whether or not the vehicle axis is within a range of potential orientations that will enable the vehicle axis to be leveled relative to the horizontal plane, and whether or not the vehicle axis is leveled to a tolerance relative to the horizontal plane, wherein said outputting updates the operator on the leveling orientation of the vehicle relative to the horizontal plane as the vehicle moves.

19. (cancelled)

20. (previously presented) A process for leveling a vehicle comprising:

sensing the orientation of a vehicle relative to a horizontal plane as the vehicle moves;

processing data relating to the sensed orientation with a controller; and

adjusting the orientation of the vehicle relative to the horizontal plane with the controller, based on the data, as the vehicle moves,

wherein the vehicle includes an air suspension element, and wherein the controller, via the electronic ride height control system, changes the amount of air in the air suspension element during said adjusting.

21.-22. (cancelled)

23. (original) A leveling system for a vehicle comprising:

a sensor that measures how level at least one of a fore to aft vehicle axis and a side to side vehicle axis is relative to a pre-selected plane and generates leveling data;

a controller in communication with the sensor, said controller operating in a dynamic mode, wherein the controller analyzes the leveling data to generate leveling information and outputs the leveling information to at least one of a display and an audible indicator to provide an operator with the leveling information as the vehicle traverses a potential parking area, and a leveling mode, wherein the controller uses the leveling data to automatically level to an extent at least one of the fore to aft vehicle axis and the side to side vehicle axis relative to the pre-selected plane without input from the operator.

24. (original) The leveling system of claim 23 wherein the pre-selected plane is a horizontal plane.

25. (original) The leveling system of claim 23 wherein the extent renders the at least one of the fore to aft vehicle axis and the side to side vehicle axis substantially parallel to the pre-selected plane.

26. (original) The leveling system of claim 23 wherein the extent puts the at least one of the fore to aft vehicle axis and the side to side vehicle axis within a tolerance of parallel to the pre-selected plane.

27. (original) The leveling system of claim 23 wherein the vehicle includes an electronic ride height control system in communication with a suspension element, wherein the controller is in communication with the electronic ride height control system, and wherein the controller at least one of controls and overrides the ride height control system in said leveling mode to adjust the suspension element.